



DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

Known for excellence. Built on trust.

Eversource Transmission Line:

F107 - Seacoast Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION: Daily Weekly Storm Event⁺ Reduced Frequency⁺⁺
 Other:

Date: **12/01/2020** Time: **1020** ⁺Was this inspection triggered by a 0.25" storm event? Yes No

If yes, how did you determine whether a 0.25" storm event has occurred? Rain Gauge Weather Station
 Other If other, please describe Weather Underground

+Storm event info (approx): Variable rain beginning late morning on 11/30 continuing with strong winds until early morning on 12/1

Amount of rainfall (inches): 1.74

++Reason for Reduced Frequency
(i.e., Monthly due to dry conditions):

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Variable sun and clouds, no measurable precipitation until 11/30

Weather conditions (time of inspection): Cloudy, mid 50's

pH Meter Information (make/model): **Hanna HI98107**

Calibration Method: 2 Point
Date: **12/01/20** Time: **0930**

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager
Phone: 508-954-2736
Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist
Phone: 603-714-3031
Email: kurt.nelson@eversource.com

Attn: Tom Meister
Phone: 339-987-7901
Email: thomas.meister@eversource.com

Attn: Sam Eames
Phone: 603-915-0073
Email: samual.eames@eversource.com

EVERSOURCE COMPLIANCE

Attn: Matt Cardin
Phone: 603-988-6635
Email: matthew.cardin@eversource.com

FIELD SERVICES SAFETY MANAGER

Transmission ROW

Attn: Joshua Scott
Phone: 603-848-7759
Email: joshua.scott@eversource.com

ENVIRONMENTAL CONSULTANT

GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier
Phone: 603-380-5024
Email: Deborah.zartagier@gza.com

Attn: Rebecca Cox
Phone: 603-315-7520
Email: rebecca.cox@gza.com

Attn: Lucas Turcotte
Phone: 603-380-5017
Email: lucas.turcotte@gza.com

CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Active construction/earthwork occurring in adjacent parking lot.

PHOTOGRAPHS



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **8.6**

Observations/Notes: Shallow standing water approx. 0.5" deep. Turbidity observed.

Location: UNH Wetland – 2 (Stormwater Area)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **7.6**

Observations/Notes: Large area of variable depth standing water, max depth approx. 4". Turbidity observed.

Location: UNH Wetland – 3 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **7.3**

Observations/Notes: Large area of variable depth standing water, max depth approx. 7". Turbidity observed.

Location: UNH Wetland – 4 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **6.0**

Observations/Notes: Large area of variable depth standing water, max depth approx. 8".

Location: UNH Wetland – 5 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **5.9**

Observations/Notes: Large area of variable depth standing water, max depth approx. 8".

Location: UNH Wetland – 6 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: ---

Observations/Notes: Soil saturated but no standing water at surface.

Location: College Brook – 1 (Upstream in Brook)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: CB – 1 (Catch Basin)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: CB – 2 (Catch Basin)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: RG – 1 (Rain Garden)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: A Lot – 1 (Drainage Swale)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location:

Status of surface water at the time of inspection? Dry Standing Flowing

pH:

Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

- Flow of turbid water entering wetland area adjacent to UNH Wetland – 2 through green drainage pipe outlet. Origin of water is unknown.



DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

Known for excellence. Built on trust.

Eversource Transmission
Line:

F107 - Seacoast Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION: Daily Weekly Storm Event⁺ Reduced Frequency⁺⁺
 Other:

Date: **12/03/2020** Time: **1125** ⁺Was this inspection triggered by a 0.25" storm event? Yes No

If yes, how did you determine whether a 0.25" storm event has occurred? Rain Gauge Weather Station
 Other If other, please describe Weather Underground

+Storm event info (approx):

Amount of rainfall (inches):

++Reason for Reduced Frequency
(i.e., Monthly due to dry conditions):

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Variable sun and clouds, no measurable precipitation

Weather conditions (time of inspection): Sunny, Low 40's

pH Meter Information (make/model): **Hanna HI98107**

Calibration Method: 2 Point

Date: **12/03/20** Time: **1040**

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

Email: kurt.nelson@eversource.com

Attn: Tom Meister

Phone: 339-987-7901

Email: thomas.meister@eversource.com

Attn: Sam Eames

Phone: 603-915-0073

Email: samual.eames@eversource.com

EVERSOURCE COMPLIANCE

Attn: Matt Cardin

Phone: 603-988-6635

Email: matthew.cardin@eversource.com

FIELD SERVICES SAFETY MANAGER

Transmission ROW

Attn: Joshua Scott

Phone: 603-848-7759

Email: joshua.scott@eversource.com

ENVIRONMENTAL CONSULTANT

GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier

Phone: 603-380-5024

Email: Deborah.zartagier@gza.com

Attn: Rebecca Cox

Phone: 603-315-7520

Email: rebecca.cox@gza.com

Attn: Lucas Turcotte

Phone: 603-380-5017

Email: lucas.turcotte@gza.com

CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Active construction/earthwork occurring in adjacent parking lot. Turbid water observed from green drainage pipe outlet near monitoring location UNH Wetland -2.

PHOTOGRAPHS



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: --

Observations/Notes:

Location: UNH Wetland – 2 (Stormwater Area)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: 7.5

Observations/Notes: Large area of variable depth standing water, max depth approx. 4". Turbidity observed.

Location: UNH Wetland – 3 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: 7.6

Observations/Notes: Large area of variable depth standing water, max depth approx. 6". Turbidity observed.

Location: UNH Wetland – 4 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: 6.2

Observations/Notes: Large area of variable depth standing water, max depth approx. 8".

Location: UNH Wetland – 5 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: 6.2

Observations/Notes: Large area of variable depth standing water, max depth approx. 8".

Location: UNH Wetland – 6 (Cattail Wetland)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: ---

Observations/Notes:

Location: College Brook – 1 (Upstream in Brook)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: CB – 1 (Catch Basin)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: CB – 2 (Catch Basin)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: RG – 1 (Rain Garden)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: A Lot – 1 (Drainage Swale)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

Status of surface water at the time of inspection? Dry Standing Flowing

pH: **Not Monitored**

Observations/Notes:

Location:

Status of surface water at the time of inspection? Dry Standing Flowing

pH:

Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

- None.